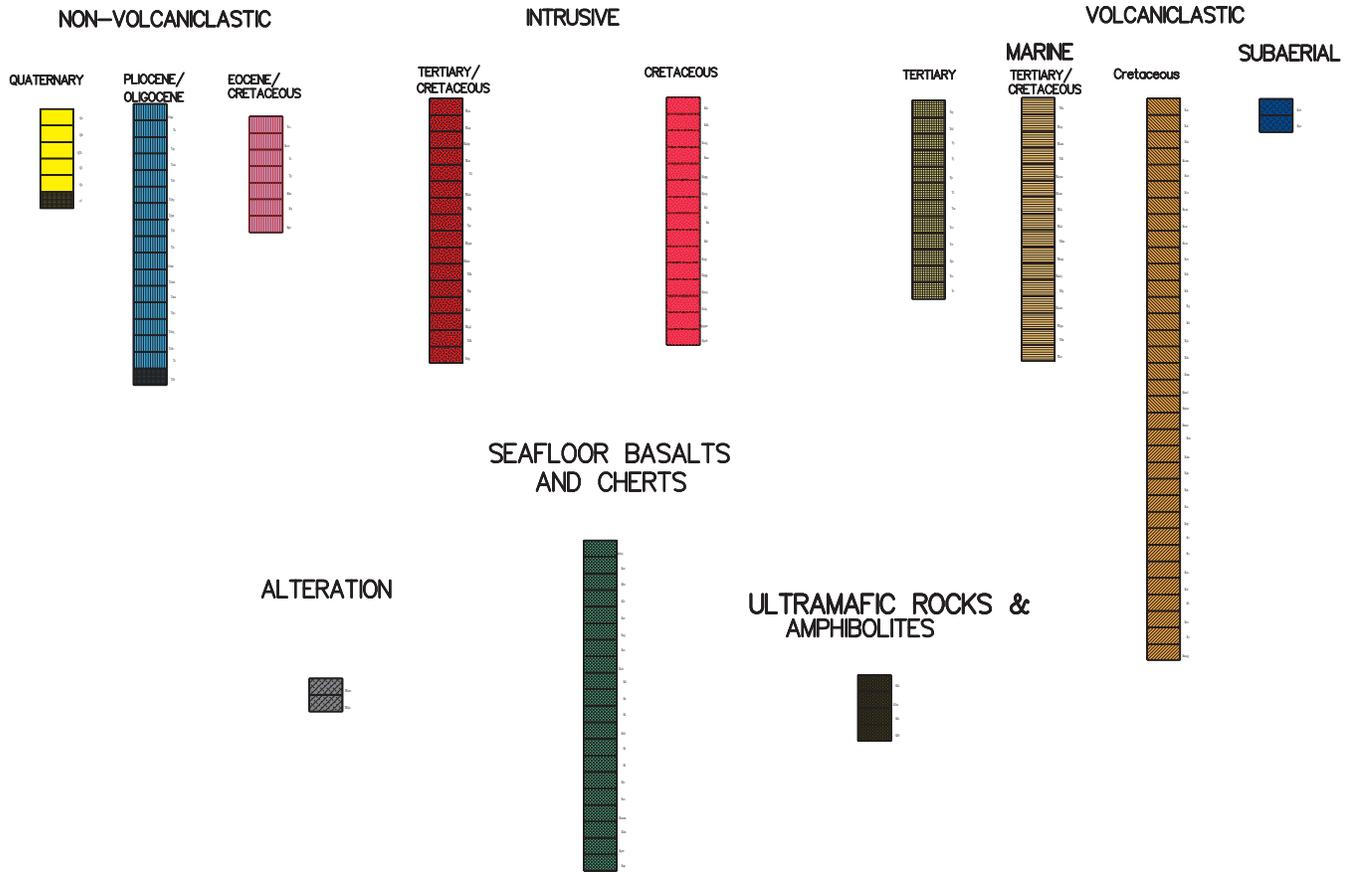


Legends

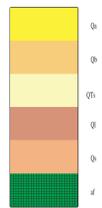
PUERTO RICO MAP UNITS



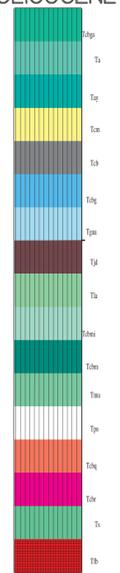
PUERTO RICO MAP UNITS

NON-VOLCANICLASTIC

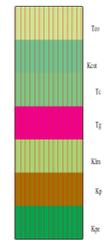
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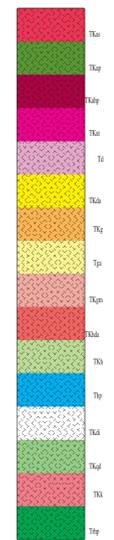
PLIOCENE/ OLIGOCENE



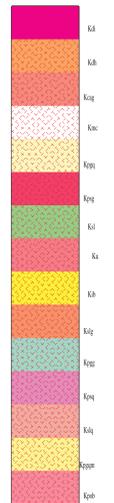
EOCENE/ CRETACEOUS



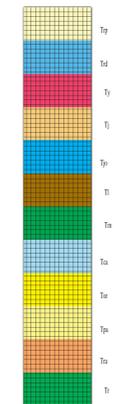
TERTIARY/ CRETACEOUS



CRETACEOUS

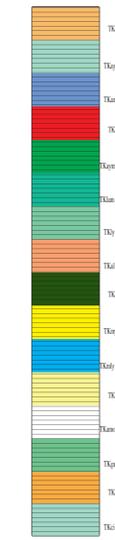


TERTIARY

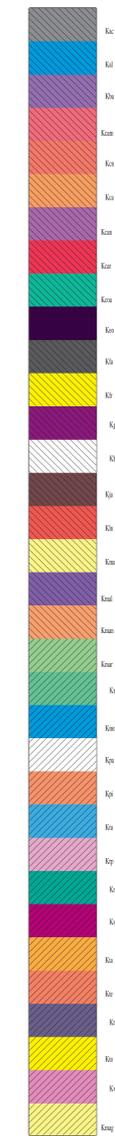


MARINE

TERTIARY/ CRETACEOUS



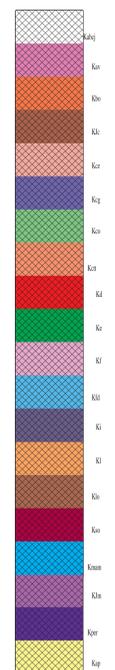
Cretaceous



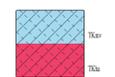
SUBAERIAL



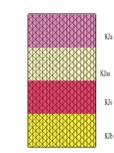
SEAFLOOR BASALTS AND CHERTS



ALTERATION

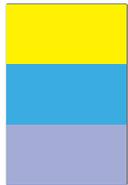


ULTRAMAFIC ROCKS & AMPHIBOLITES



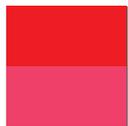
PUERTO RICO TERRANE LEGEND

NONVOLCANICLASTIC TERRANES



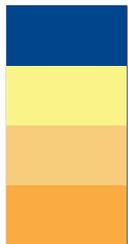
Quaternary
Pliocene / Oligocene
Eocene / Cretaceous

INTRUSIVE TERRANES



Tertiary / Cretaceous
Cretaceous

VOLCANICLASTIC TERRANES



Subaerial
Marine Tertiary
Marine Tertiary / Cretaceous
Marine Cretaceous



SUBMARINE BASALT, CHERT LOCALLY



ULTRAMAFIC ROCKS AND AMPHIBOLITES



ALTERATION TERRANE

DEPOSIT TYPE	DESCRIPTION	ROCK UNITS AND STRUCTURES	EXAMPLE OF DEPOSIT TYPE	KNOWN OCCURRENCES	GEOPHYSICAL SIGNATURE	GEOCHEMICAL SIGNATURE	TRACT DELINEATION	COMMENTS
3A. Podiform chrome	Regular masses of chrome in ultramafic parts of ophiolite (Abers, 1986).	Deposits are restricted to dunite bodies within sectioned harzburgite and/or the lower portions of ultramafic cumulates. These rocks are commonly serpentinized. Within Puerto Rico, outcrops of serpentine (K ₂ O) defines host rocks. These map units are massive but previously sheared and internally slickensided. Serpentine is chiefly altered harzburgite. There is no evidence that serpentine extends very deep.	None	None	Magnetic Map - serpentine anitorma of southwestern Puerto Rico produce large anomalies. Gravity Map - serpentine anitorma of southwestern Puerto Rico show gravity lows, implying extension of serpentine below Quaternary alluvium into the Valle de Guayfaco.	Within USGS Bulletin 1693, no geochemical signature is recognized for this model. Dr stream sediment geochemical samples show a suite of element anomalies related to podiform chrome terrane in southwest Puerto Rico. Chrome values (2,000-10,000 ppm) occur in podiform chrome terrane Cobalt values (90 - 2,000 ppm). Nickel anomalies (150-10,000 ppm) present in podiform chrome terrane.	Tract delineation based on outcrop pattern of known serpentine map units.	
17 Porphyry Cu	Stockwork veins of quartz, chalcopyrite, and molybdenite in or near a porphyritic intrusion. The model name and number porphyry copper (17) is used when it is believed the mineral occurrence is part of a Cu porphyry system, but not enough information is available to discriminate between porphyry Cu-Au (20c) or porphyry Cu-Mo (21a).	Tonalite to monzonite stocks and breccia pipes intrude into batholiths, volcanic or sedimentary rocks within Puerto Rico, these igneous rocks intrude rocks of older age (not comagmatic). Molybdenum increases with depth of system, which indicates a deeper seated porphyry system.	Site no. MRDS no. Name 114 52 W70109 Rio Cuyon W701043 La Muda	Site no. MRDS no. Name 114 52 W701112 Rio Hondo (2-2) 116 W701044 La Muda 117 W701045 La Muda 119 W701046 La Muda 178 W701091 Quebrada de la Mina 188 W701003 Rio Santiago copper prospect 189 W701004 Humaco copper prospect 203 W701009 Baranquitas prospect	Aeromagnetics - linear features and dominantly aeromagnetic high reflect the subsurface. Bouguer gravity - Uxado and San Lorenzo batholiths reflect lows.	The porphyry Cu model described in USGS Bulletin 1693 contains a geochemical signature of Cu, Mo, Au, Ag, W, Bi, Sr towards center; Pb, Zn, Au, As, Sb, Se, Te, Mn, Co, Ba, and Rb towards periphery. Geochemical analysis of Puerto Rico samples show anomalies for Cu, Au, Mo and Sn, contained mostly within the permissive terrane.	Known occurrences identify permissive lithologies. South of Uxado batholith - stock delineated based on a combination of known occurrences, linear aeromagnetic signature, and geologic terrane. Aeromagnetics can be either high or low, depending on composition of surrounding lithologies.	The permissive area for porphyry deposits is very large, containing most of the Tertiary and mixed Cretaceous and Tertiary volcanoclastic lithologies. Within this area of permissive terranes, promising areas are delineated with respect to known occurrences.
18B Cu skarn deposit	Chalcopyrite in calc-silicate contact metamorphic rocks (Cox and Theodore, 1996).	Tonalite to monzonite plutons intrude carbonate rocks or calcareous clastic rocks. In Puerto Rico: Rio Blanco stock - intrudes calcareous Tabonuco Formation (KTa) and Hago Puerto Formation (KH), Fajardo Formation (Kfa), Lomas Formation (Klo). San Lorenzo batholith (Ksl) and quartz diorite (Kqgd) complex intrudes metavolcanic rocks (TKmv), lava flows and metavolcanic rocks (TKmv), lava flows and	Site no. MRDS no. Name 154 92 W701129 Island Queen (La Torre) W701050 La Mira, Rio Blanca (Spanish add)	Site no. MRDS no. Name 154 92 W701112 Rio Hondo (2-2) 37 W701115 Escueta prospect (Jaguar vein, Manay 489) 51 GEM1111 Borinquen 126 W701049 El Yunque 191 W701100 Rio Hondo (35-1) 192 W701102 Rio Hondo (35-2) 193 W701103 Rio Hondo (35-3) 184 W701104 Rio Hondo (35-4) 185 W701105 Rio Hondo (35-5) 196 W701106 Rio Hondo (35-6)	Rio Blanco area Magnetic - no coverage in Rio Blanco area Gravity - Rio Blanco alteration too small to be seen. Aeromagnetics - only partial coverage of area, therefore, inconclusive. Gravity - there appears to be a halo (145-155mGal) around batholith, but it is unclear if this is an artifact of the batholith or mineralization.	USGS Bulletin 1693 shows geochemical signatures of Cu, Au, Pb, Zn, and Co for this model type. In Puerto Rico, geochemical sampling does not show major groupings of the signature elements around the Cu skarn terrane. Rio Blanco area - tract delineation based on 1:20,000 mapped alteration and pyrite occurrences. Known Cu skarn occurrences. KSA & Kf have very little carbonate material. Delineated area to northwest of stock based on mapped copper occurrences and implied buried pluton based on 1:20,000 scale mapping. San Lorenzo batholith - interior boundary at edge of plutonic rocks. Eastern boundary - on northeast side - fault contact between Kf and Kt, buried under Ga, contact between carbonate bearing Torrelita Breccia (Kt) and Los Negros Formation (Kln). Approximately 2 kilometers from plutonic rocks through Kabq unit. Baranquitas stock - Pinas stock area - Tract delineated based upon known occurrences, fault-bounded Torrelita Breccia (Kt)	Rio Blanco area - tract delineation based on 1:20,000 mapped alteration and pyrite occurrences. Known Cu skarn occurrences. KSA & Kf have very little carbonate material. Delineated area to northwest of stock based on mapped copper occurrences and implied buried pluton based on 1:20,000 scale mapping. San Lorenzo batholith - interior boundary at edge of plutonic rocks. Eastern boundary - on northeast side - fault contact between Kf and Kt, buried under Ga, contact between carbonate bearing Torrelita Breccia (Kt) and Los Negros Formation (Kln). Approximately 2 kilometers from plutonic rocks through Kabq unit. Baranquitas stock - Pinas stock area - Tract delineated based upon known occurrences, fault-bounded Torrelita Breccia (Kt)	Cu and Fe skarn - both deposits usually contain both Fe and Cu, assignment between these two models was based on what was perceived to be dominant metal.
18D Iron skarn deposits	Magnetite in calc-silicate contact metamorphic rocks (Cox, 1986).	For this deposit type, contacts of gabbro, diorite, diabase, pyrite, tonalite, granodiorite or granite intrusions and carbonate rocks or calcareous clastic rocks in Puerto Rico. Rio Blanco stock unit (TKh) - intrudes calcareous Tabonuco Formation (KTa) and Hago Puerto Formation (KH), Fajardo Formation (Kfa), Lomas Formation (Klo). San Lorenzo batholith (Ksl) and quartz diorite (Kqgd) complex intrudes metavolcanic rocks (TKmv), lava flows and breccias (Kqgd), and calcareous Pishaya Formation (Kpi), Torrelita Breccia (Kt) and Robles Formation (Kv).	Site no. MRDS no. Name 80 W701123 Keystone mine (La Mina-La Esperanza, Junco mine)	Site no. MRDS no. Name 80 W701116 Aguayo prospect 41 W701117 Care Field and Pastor prospects 43 W701118 Santiago and Pastor prospects in Puerto Rico. 45 W701119 Suiza prospect 82 W701120 Manney limestone deposits 83 W701121 Buen Suceso 84 W701122 La Caridad prospect 87 W701125 Deposit no. 5 88 W701126 Deposit no. 2 91 W701127 Deposit no. 3 94 W701128 Deposit no. 4 96 W701164 Yaree (Los Coccos) 97 W701165 Enaguas 143 W701136 Tulas 147 W701138 Barro Libre, Rio Porques 197 W701140 Unnamed (47-1)	Rio Blanco area Magnetic - no coverage in Rio Blanco area Gravity - Rio Blanco alteration too small to be seen. Aeromagnetics - only partial coverage of area, therefore, inconclusive. Gravity - there appears to be a halo (145-155mGal) around batholith, but it is unclear if this is an artifact of the batholith or mineralization.	USGS Bulletin 1693 shows a geochemical signature of Fe, Cu, Au, and possibly Sn for this model. In Puerto Rico, the geochemical analysis do not show anomalous patterns for these elements. Rio Blanco area - known Fe skarn occurrence. Tract delineation based on known alteration and pyrite at 1:20,000 scale mapping. San Lorenzo batholith - coincident tract with Cu skarn.	Rio Blanco area - known Fe skarn occurrence. Tract delineation based on known alteration and pyrite at 1:20,000 scale mapping. San Lorenzo batholith - coincident tract with Cu skarn. Mix of both Cu skarn and Fe skarn occurrences. See Cu skarn for tract delineation description. Los Pinos intrusion - magnetite, resulting from partial replacement of hornblende; occurs along contact of Los Pinos intrusion. Richt concentrations do not exceed 10 percent of rock. A.D. Fraser aeromagnetic map shows pronounced magnetic anomaly along southeast portion of intrusion (map 1:335). Cerro of Gato - quartz diorite-granodiorite (TKqg) intrudes. Yauco Formation (TKy) - calcareous. Lago Garzas (TKl) - calcareous. Yauco Formation overlies with Lago Garzas (TKy). Known Cu and Fe skarn occurrences.	Cu and Fe skarn - both deposits usually contain both Fe and Cu, assignment between these two models was based on what was perceived to be dominant metal.
30C Porphyry Cu-Au	Stockwork veins of chalcopyrite, bornite, and magnetite in porphyritic intrusions and ovoid volcanic rocks. Ratio of Au (in ppm) to Mo (in percent) is greater than 30 (Cox, 1986).	Within Puerto Rico, porphyry Cu-Au deposits are associated with Eocene porphyry intrusions, which are mostly quartz bearing and brachioid in composition. These Eocene porphyries intrude rocks of same age (comagmatic).	Site no. MRDS no. Name 73 W701071 Peta de Haca deposit 75 W701073 Cala Abajo deposit 161 W701014 Tasama Deposit 179 W701059 Helecho Deposit	Site no. MRDS no. Name 73 W701072 Sapo Abajo 156 W701012 Luxury Creek Prospect 160 W701013 Copper Creek	Aeromagnetics - linear features and dominantly aeromagnetic high reflect the subsurface. Bouguer gravity - Uxado and San Lorenzo batholiths reflect lows.	USGS Bulletin 1693 describes the geochemical signature for the porphyry Cu-Au model as Cu, Au, Ag, and Co central to deposit, and Mo, Pb, Zn, Mn peripheral to these models. Geochemical analyses for Puerto Rico show: Molybdenum and In anomalies contained within the permissive areas. Gold occurs both within and outside of permissive terranes. Anomalous copper values occur within permissive terranes.	Delineated by extent of volcaniclastic belt and known occurrences. South of Uxado batholith - Tract delineated based on a combination of known occurrences, linear aeromagnetic signature, and geologic terrane. Aeromagnetics can be either high or low, depending on composition of surrounding lithologies. Gold occurs both within and outside of permissive terranes. Anomalous copper values occur within permissive terranes.	The model name and number porphyry copper (17) is used when it is believed the mineral occurrence is part of a Cu porphyry system, but not enough information is available to discriminate between porphyry Cu-Au (20c) or porphyry Cu-Mo (21a). The permissive area for porphyry deposits is very large, containing most of the Tertiary and mixed Cretaceous and Tertiary volcanoclastic lithologies. Within this area of permissive terranes, favorable areas are delineated with respect to known occurrences.
22C Polymetallic vein	Quartz-carbonate veins with Au and Ag associated with base metal sulfides related to hypobasalt intrusions in sedimentary and metamorphic terranes (Cox, 1986).	Near surface fractures and breccias within thermal aureol of clusters of small intrusions. In some areas peripheral to porphyry systems.	Site no. MRDS no. Name 88 W701034 Constancia mine 88 W701160 Cerro Anipia	Site no. MRDS no. Name 25 W701029 Barrio Pasto deposits 26 W701064 Unnamed (22-1) 27 W701065 Unnamed (22-2) 28 W701066 Unnamed (22-3) 29 W701067 Unnamed (22-4) 31 W701068 Unnamed (22-6) 32 W701110 Unnamed (22-10) 36 W701114 Unnamed (22-17) 38 W701150 Unnamed (48-8) 42 W701152 Unnamed (48-10) 44 W701153 Unnamed (48-11) 46 W701154 Unnamed (48-12) 47 W701155 Unnamed (48-13) 48 W701156 Unnamed (48-14) 58 GEM1117 Rio Japona 63 W701031 Unnamed (20-12) 64 W701032 Unnamed (20-13) 68 W701036 Cuchillos 68 W701070 Pileas 70 W701037 Colochi, Sayre 74 W701039 Unnamed (21-7) 76 W701074 Unnamed (22-11) 77 W701075 Unnamed (22-12) 78 W701076 Unnamed (22-13) 79 W701077 Unnamed (22-14) 80 W701078 Unnamed (22-15) 81 W701079 Unnamed (22-56) 90 W701161 Carmen (50-3) 93 W701162 Carmen (50-4) 95 W701163 Carmen (50-5) 110 W701041 Unnamed (22-2) 118 W701080 Unnamed (22-17) 121 W701081 Unnamed (22-18) 123 W701082 Unnamed (22-19) 125 W701083 Unnamed (22-20) 127 W701084 Unnamed (22-21) 128 W701085 Unnamed (22-22) 130 W701086 Unnamed (23-1) 131 W701087 Unnamed (23-2) 132 W701088 Unnamed (23-3) 138 W701130 Rialongo 141 W701136 Mirilla, San German 146 W701130 Unnamed (48-2) 156 W701010 Unnamed (14-2) 157 W701011 Unnamed (15-1) 163 W701016 Unnamed (18-1) 176 W701082 Unnamed (23-7) 180 W701083 Unnamed (23-8) 181 W701084 Unnamed (23-9) 182 W701085 Unnamed (23-10) 184 W701097 Unnamed (33-12) 186 W701098 Unnamed (33-13) 186 W701099 Unnamed (33-14) 190 W701100 Unnamed (34-1) 198 W701107 Unnamed (25-7) 204 W701143 Unnamed (48-1)	None	The element Zn, Cu, Pb, Au and Ag are characteristic of this deposit type. These elements are present in the geochemical samples taken throughout the island.	No terrane drawn. The entire island is permissible for polymetallic veins, except the San Lorenzo and Uxado batholiths, and Oligocene or younger sediments.	The depositional environment for this deposit type is within near-surface fractures and breccias within thermal aureols of small intrusions or peripheral to porphyry systems. Due to the high degree of faulting and the abundance of intrusions, most of the island is permissible except for the large batholiths and the Oligocene and younger sediments. All of these occurrences were identified in Cox and Briggs (1973), and their descriptions used to classify as polymetallic veins.
24C Volcanogenic manganese	Lenses and stratiform bodies of manganese oxide, carbonate, and silicate in volcanic-sedimentary sequences (Koski, 1986).	The marine Tertiary volcanoclastics with carbonates were found to contain all occurrences of manganese.	Site no. MRDS no. Name 115 W701009 Aguada 128 W701085 Gato prospect	Site no. MRDS no. Name 2 W701145 Juana Diaz mine 6 W701147 Unnamed (48-5) 10 W701148 Unnamed (48-6) 18 W701149 Unnamed (48-7) 18 W701060 Unnamed (31-2) 20 W701081 Unnamed (21-3) 22 W701082 Unnamed (21-4) 24 W701083 Monte Guitane 48 W701156 Santiago 65 W701033 Mayaguez 67 W701035 Coraca 173 W701055 Unnamed (30-1)	Aeromagnetics - incomplete or no coverage over permissive terrane. Gravity - no detectable pattern over permissive terranes.	The geochemical signature for volcanogenic Mn deposits contained in USGS Bulletin 1693 are Mn, Zn, Pb, Cu and Ba. These elements do not show related patterns for Puerto Rico samples.	Manganese occurrences and deposits. Area permissive - contains volcanoclastic marine Tertiary lithologies.	Volcanogenic manganese deposits form most often when there is sufficient structure and porosity to permit subsurface hydrothermal circulation and sea floor venting. The Juana Diaz mine produced manganese oxide from irregular chambers of limestone of the Juana Diaz Formation. Meyerhoff (1933) believes the manganese ore was deposited by meteoric waters which dissolved calcium carbonate and also precipitated manganese oxide.
25E Epithermal quartz skintite Au	Gold, pyrite, and enargite in craggy veins and breccias in zones of high-alumina alteration related to felsic volcanism (Berger, 1986).	Through gings fractures, centers of intrusive activity. Upper and peripheral parts of porphyry copper systems.	Site no. MRDS no. Name 35 W701113 Cidra 160 D002191 Cerro la Tiza	Site no. MRDS no. Name 86 W701124 Unnamed (39-1) 124 W701048 Unnamed (23-7) 173 W701052 Rio Anaco	Aeromagnetics - coverage not available for large units. Gravity - inconclusive.	The USGS Model book, Bulletin 1693, shows geochemical presence of Au, Ag, and Cu higher in the system, and base metals increasing with depth. These elements do not define the permissive area for this deposit type.	Terranes drawn based on known 1:20,000 alteration. Called advanced argillic alteration associated with plutons. Known occurrences in most tracts. All hydrothermal alteration (TKha) and meta-volcanic rocks (TKmv) included that is related to dacite, quartz latite, rhyodolite or rhyolite.	
26A Kuruko massive sulfide	Copper- and zinc-bearing massive sulfide deposits in marine volcanic rocks of intermediate to felsic composition (Singer, 1986).	Eocene island arc volcanics. Chert present. Dacitic domes.	None	None	Aeromagnetics - incomplete or no coverage over permissive terrane. Gravity - no detectable pattern over permissive terrane.	Copper and zinc anomalies with scattered gold anomalies occur in the western part of the massive sulfide terrane.	Area permissive delineated by intermediate to felsic marine Tertiary volcanoclastic lithologies. Associated occurrences of volcanogenic Mn.	While no known occurrences of Kuruko massive sulfide deposits have been described, there is a high probability that they are present in Puerto Rico. The permissive features include: marine volcanic rocks of intermediate to felsic composition; mafic rhyolite, dacite, subvolcanic basalt and associated sediments; hot springs related to marine volcanism; island arc tectonic setting; evidence of associated deposits (volcanogenic Mn).
38A Laterite Ni	Nickel-rich, in situ laterite weathering products developed from dunitic and peridotites. Ni-rich iron oxides are most common (Singer, 1986).	Relatively high rates of chemical weathering (several hundred times of ultramafic rocks) and relatively low rates of physical erosion. K ₂ O - serpentine is host rock. Dunite source - good chrome resource Harzburgite source - poor chrome resource Host lithology is outline of laterite accumulation. 169 W701053 Las Mesas deposit 28.39% Fe, 0.79% Cr, 25,000,000 ST, .81% Ni, .12% Co 171 W701054 Rosario north deposit 20.76% Fe, .58% Cr 4,800,000 ST, .85% Ni, .07% Co 172 W701055 Rosario south deposit 12.47% Fe, .34 Cr, 1,100,000 ST, .71% Ni, .08% Co 175 W701057 Maricao west 22.85% Fe, .59% Cr, 5,000,000 ST, .88% Ni, .10% Co 177 W701058 Maricao east 25.45% Fe, .67% Cr 8,000,000 ST, 1.08% Ni, .11% Co	Site no. MRDS no. Name 166 W701051 Punta Guayfaco 1.02% Ni, 0.07% Co, .03% Cr, 2,100,000 ST, 19.03% Fe 201 W701052 Guayfaco 0.09% Co, 20.54% Fe, 0.51% Cr, 46,800,000 ST, .88% Ni	None	Gravity - serpentine anitorma produce large anomalies. Aeromagnetics - coverage incomplete.	Enriched Ni, Cr, and Co represent geochemical signatures for this model. These elements and Mg are anomalous in the permissive terrane for this deposit type.	Known occurrences. All laterites contained within K ₂ O Ni laterites mapped at 1:20,000.	Laterite accumulation is restricted to the outcrop pattern of the serpentine (K ₂ O) zone. This area is believed to have been exhaustively explored for this type of deposit.
39C Kink Type Bauxite	Residual and transported material on carbonate rocks. Transported material may be felsic volcanic ash from distant source or any aluminum sediments washed into the basin of deposition (Patterson, 1986).	Kennedy bauxite concession.	Not plotted.	None	None	Aluminum and Ga not examined.	Based on Kennedy bauxite concession granted in 1961. Tract extends further east and west and is restricted to the Lajas Limestone. Bauxite sampled from sinkholes.	
39A Placer AU-PGE	Elemental gold and platinum-group alloys in grains and (rarely) nuggets in gravel, sand, silt, and clay, and their consolidated equivalents, in alluvial, beach, and eolian deposits (Fryeand, 1986).	Oligocene and Quaternary sedimentary clastic deposits which have drained gold bearing lithologies and alteration.	None	Site no. MRDS no. Name 72 W701030 Pabla Blancos 100 GEM1112 Llanillo Mountains gold placers 200 W701108 Rio Caliente	None	Some Au anomalies define drainages permissive for placer Au-PGE mineralization in the northeast part of the island.	Known occurrences. High energy drainage areas below known gold occurrences.	Gold placers were exploited by both the Indian, and then Spanish colonists during colonization. Gold placers were also exploited during the 1920s to 1950s. Remaining gold resources lie both in undiscovered remnant placer deposits, veins of gold-bearing quartz, and placers otherwise are possible.
39C Shoreline Placer Tl	Ilmenite and other heavy minerals concentrated by beach processes and enriched by weathering (Forte, 1986).	Rock types included in this deposit type consist of well-sorted medium to fine-grained sand in dunes, beach, and field deposits commonly overlying shallow-marine deposits. These deposit types typically are elongated alongshore on bodies parallel to coastal dunes and beaches.	None	Site no. MRDS no. Name 105 W701043 Hielo 106 W701004 La Florida 107 W701009 La Boca 111 W701007 Rio Coccol	None	Tl anomalies in the volcanoclastic rocks in the western part of the island may indicate the possibility of placer Tl deposits along the west coast.	Occurrences are restricted to individual beach dunes which are not visible at 1:20,000 scale.	
Copper Mono	Monite (horizontal) and pipes (vertical) found in association as brecciated areas, small in two dimensions and long in the third dimension. Brecciation allows the flow of fluids and deposition of minerals.	Small lenses and veins found in the Blocho Tuff Member of the Pozas Formation. Subvolcanic lithologies are preferred host lithologies.	None	Site no. MRDS no. Name 15 W701023 Unnamed (20-4) 16 W701024 Unnamed (20-5) 17 W701025 Unnamed (20-6)	None	A few scattered anomalies for Cu occur in this terrane.	Tract delineated for copper-oxide Mono deposits of Puerto Rico is controlled by surface exposure of subvolcanic volcanic rocks of the Pozas Formation.	